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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,611	04/27/2007	Martin Larsson	41411	4995
PEARNE & GO	7590 12/30/200 ORDON LLP	EXAMINER		
1801 EAST 9T	-	DANG, HOANG C		
SUITE 1200 CLEVELAND, OH 44114-3108			ART UNIT	PAPER NUMBER
			3672	
			MAIL DATE	DELIVERY MODE
			12/30/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comment	10/594,611	LARSSON, MARTIN				
Office Action Summary	Examiner	Art Unit				
	Hoang Dang	3672				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
·=	<del>/ _</del>					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	,, <b>—</b> , , , , ,	(DTO 110)				
1) Notice of References Cited (PTO-892)  A) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) L Other:						

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 6 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yatsuyanagi et al (JP 08-025117).

The claimed structure reads exactly on the reference's structure when members (5), (1), (20,25), (3), (7) and (10) of Yatsuyanagi et al are respectively considered as "core drill", "stand", "feeding housing", "electric drilling motor" and "control unit" as recited. It is noted that the control knob or/and switch on operational box 10 is considered as the "first control" for manual influence of the feeding motor's feeding force as recited.

#### Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 2-5, 7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yatsuyanagi et al '117.

Yatsuyanagi et al disclose a core drilling device substantially as claimed. It is not clear whether Yatsuyanagi et al includes a torque regulator, speed regulator, torque limiting device, water controlling means, rotational speed indicator and automatic stopping means called for in the claims. However, the examiner would like to take an Official notice that the use of a torque or speed regulator or limiting device is well known in the well drilling art to optimize the drilling

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operation. It is conventional to use water as a drilling fluid (thereby water flow control valve) to cool the drill bit and to carry cuttings. It is also common to provide an operator with rotational speed indicator so he/she can effectively control the drilling operation. Also, it has been held that broadly providing a mechanical or automatic means to replace manual activity which has accomplished the same result involves only routine skill in the art.

# Response to Arguments

5. Applicant's arguments filed 9/2/2009 have been fully considered but they are not persuasive. Contrary to applicant's argument, an operator can manually influence the feeding motor's (7) feeding force of Yatsuyanagi et al by using the control knob or/and switch on operational box 10 (e.g., by turning on or off, or lowering or increasing the feeding speed).

#### **Conclusion**

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang Dang whose telephone number is 571-272-7028. The examiner can normally be reached on 9:15-5:45 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hoang Dang/

Primary Examiner, Art Unit 3672